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Derwent Title: **Method of producing flame plates - involves inserting ceramic-reinforced insert into bridge region of plate, and fixing it**

Original Title:  **EP0392988A1: A method of producing so-called flame plates for the heads of internal combustion engines and product obtained thereby**

Assignee: **FIAT AUTO SPA** Standard company
Other publications from [FIAT AUTO SPA \(FIAT\)](#)...

Inventor: **DI CARLO S; DICARLO S; PRATO A; STABIELLI V;**

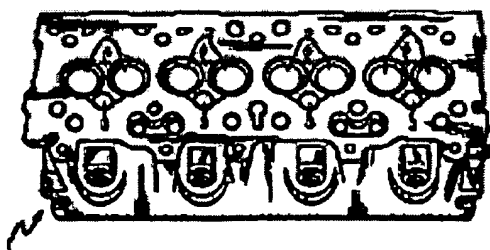
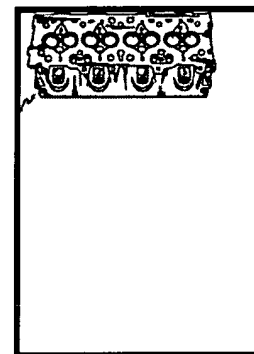
Accession/
Update: **1990-314637 / 199042**

IPC Code: **F02F 0/00 ; F02F 1/38 ; F02F 7/00 ;**

Derwent Classes: **Q52;**





Derwent Abstract: ([EP0392988A](#)) A mass (L) of light material has at least one incorporated insert (4) of heat-resistant material. The at least one insert (4) is set into the light material by casting. The light material is cast at a temp. such as to cause surface fusion of the at least one insert (4) so as to achieve metallurgical adhesion (40) between the at least one insert (4) and the mass of light material (L).
The light material is brought to a temp. of at least 700 deg.C. The light material is substantially constituted by aluminium.
Use - A method of making flame plates for the cylinder heads (1) of internal combustion engines.


Images:




[Dwg. 1/4](#), [Dwg. 1/4](#)

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Family:	PDF	Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
		EP0392988A *	1990-10-17	199042		English	F02F 1/24
Des. States: (R) DE ES FR GB SE							
Local appls.: EP1990000830137 Filed:1990-04-03 (90EP-0830137)							
.....							
<input checked="" type="checkbox"/>		DE69021614E =	1995-09-21	199543		German	F02F 1/38
Local appls.: Based on EP00392988 (EP 392988)							
EP1990000830137 Filed:1990-04-03 (90EP-0830137)							
DE1990000621614 Filed:1990-04-03 (90DE-0621614)							
.....							
<input checked="" type="checkbox"/>		EP0392988B1 =	1995-08-16	199537	9	English	F02F 1/38
Des. States: (R) DE ES FR GB SE							
Local appls.: EP1990000830137 Filed:1990-04-03 (90EP-0830137)							
.....							
<input checked="" type="checkbox"/>		IT1232718B =	1992-03-04	199240		Italian	F02F 0/00
Local appls.: IT1989000067274 Filed:1989-04-13 (89IT-0067274)							
.....							
<input checked="" type="checkbox"/>		BR9001776A =	1991-06-04	199127		PT_BR	F02F 1/24
Local appls.:							

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Legal Status:

 **First Claim:** 1. A method of making flame plates for the cylinder heads (1) of internal combustion engines comprising a mass (L) of light material (as defined above) with at least one incorporated heat-resistant material, in which the at least one insert (4) is set into the light material by a characterised in that the light material is cast at a temperature such as to cause surface fusion of at least one insert (4) so as to achieve metallurgical adhesion (40) between the at least one insert and the mass of light material (L).

 **Priority Number:**

Application Number	Filed	Original Title
IT1989000067274	1989-04-13	PROCEDIMENTO PER REALIZZARE I COSIDETTI PIATTI-FIAMMA DI TESTE PER MOTORI A COMBUSTIONE INTERNA E RELATIVO PRODOTTO

 **Citations:**

PDF	Patent	Original Title
	GB00892770	
<input checked="" type="checkbox"/>	GB2156478	COMPOSITE THERMAL SHIELD FOR ENGINE COMPONENTS
<input checked="" type="checkbox"/>	JP59231163	NAINENKIKANNOSHIRINDAHETSUDO
<input checked="" type="checkbox"/>	US1604779	
<input checked="" type="checkbox"/>	US4487175	CYLINDER HEAD FOR INTERNAL COMBUSTION ENGINE
<input checked="" type="checkbox"/>	US4604779	METHOD OF PRODUCING A CYLINDER HEAD WITH A PORT LINER
		Msg: 1.Jnl.Ref

 **Title Terms:** METHOD PRODUCE FLAME PLATE INSERT CERAMIC REINFORCED INSERT
 BRIDGE REGION PLATE FIX

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